

FIG. 1 a

NgR	1	MKRASSGGSRL <del>LAWVLWLQAWRVAT</del>
NgR2	1	MLPGLRRL <del>LQGPASACLLLTLLALPPVTP</del>
NgR3	1	MLRKGCCV <del>ELLLLLLAGELPLSG</del>
LRRNT	26	PCPGACVCYNEPKVTTSCPQQGLQAVPTGIPASSQRIFL
	30	SCPMLCTCYSSP-PTVSCQANNFSSVPLSLPPSTQRLFL
	24	GCPRDCVCYPSP-MTVSCQAHNFAAIEGIPEDSERIFL
	65	HGNR- <del>ISYVPAASFQSCRNL</del> TLWL
	68	QNNL- <del>IRSLRPGTF--GPNLL</del> TLWL
	62	QNNH- <del>ITFLQQGHF--SPAMV</del> TLWI
	89	HSNA-LAGIDAAFTGLTLIEQLDL
	90	FSNN-LSTIYPGTFRHLQALEEDL
	84	YSNN-ITFIAPNTFEGFVHLEEDL
	113	SDNAQLRVLDPTTFRGLGHLHTLHL
	114	GDNRHLSLEPDTFQGLERLQSLHL
	108	GDNRQLRTLAPETFQGLVKLHALYL
	138	DRCG-LQELGPGLFRGLAALQYLYL
	139	YRCQ-LSSLPGNIFRGLVSLQYLYL
	133	YKCG-LSSLPAGIFGGLHSLQYLYL
	162	QDNN-LQALPDNTFRDLGNLTHLFL
	163	QENS-LLHLQDDLFADLANLSHLFL
	157	QDNH-IEYLQDDIFVDLVNLSHLFL
	186	HGNR-IPSVPEHA <del>FRGLHSLDRLLL</del>
	187	HGNR-LRLLTEHVFRGLGSLDRLLL
	181	HGNK-LWSLGQGI <del>FRGLVNLDRLLL</del>

FIG. 1b

lectin activity	LRRCT	210	HQNH-VARVHPHAFRDLGRLMTLYL
		211	HGNR-LQGVHRAAFHGLSRLTILYL
		205	HENQ-LQWVHHKAFHDLHRLTTLFL
		234	FANN-LSMLPAEVLVPLRSLQYLRL
		235	FNNS-LASLPGEALADLPALEFLRL
		229	FNNS-LTELQGDCLAPLVALEFLRL
		258	NDNPWVCDCCRAPLWAWLQKFRGSSSEVPCNLPQRLAGRDLKRLAASDLEG
		259	NANPWACDCRARPLWAWFQARVSSSDVTCATPPERQGRDLRTLRTDFQAC
		253	NGNAWDCCGRARSLWEWLRRFRGSSSVPCATPELRQGDLLKSLRVEDFRNC
		310	AVASGPFRPFQTNQLTDEELLGLPKCCQPDAAKASVLEPGRPASAGNALKGR
unique domain		311	PPPT-----PTRPGSRARGNSSSNHLYGVAEAGAPP
		305	TGPASPHQIKSHTLSTSDRAARKEHHPHSHGASRDKGH-PHGHLPGSRSGSKKP
		368	VPPGDTPPGNGSGPRHINDSPFGTLPGSAEPPLTALRPGGSEPPGL-----
		342	ADPSTLYRDLPAEDSRGRQGGDAPTEDDYWGYYGGEDQRGEQTCPGAACQAPA
		357	GKNCTSHRN-RNQISKGSAGKELPELQDYAPDYQHKFSFDIM-----
		409	PTTGPRRRPGCSRKNRTRSHCRLLGQAGSGSSGTGDAEGS
		394	DSRGP-----
		398	PTARPKRKGGKARRTPIRAPSGVQQA-----
		448	GALPALACSLAPLGLALVLWTVLGPC
		399	VLSAGLRTPLLCLLLLAPHHL
GPI		424	SSGTALGVSLWILGLVWSLR

FIG. 1b-1

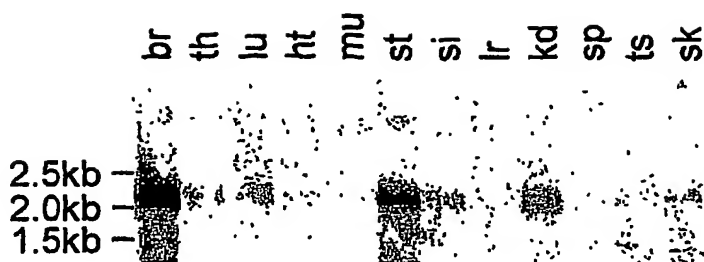


FIG.2a

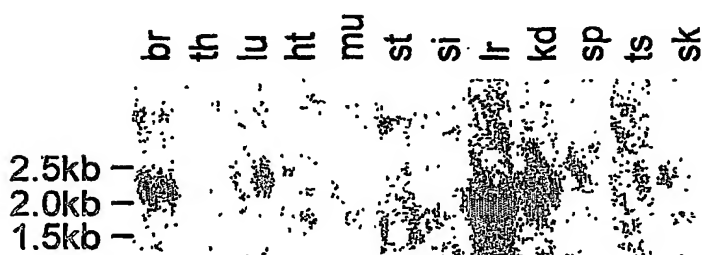


FIG.2b



FIG.2c

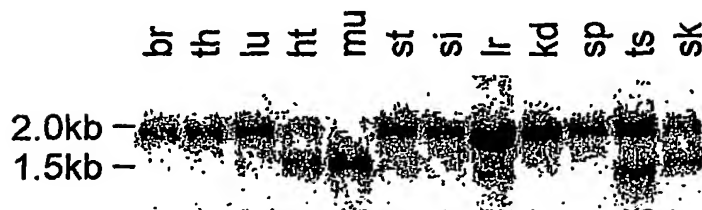
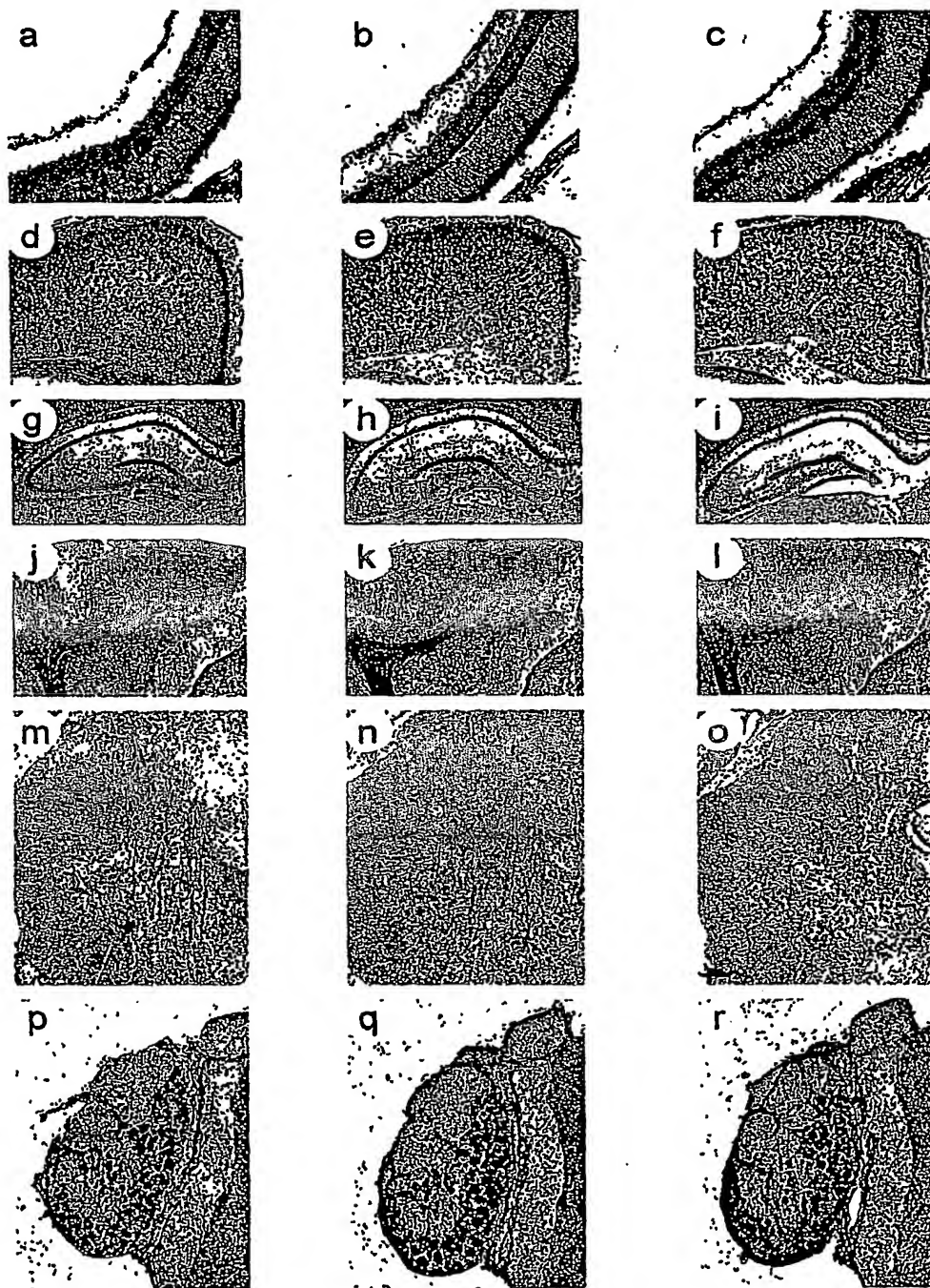


FIG.2d

**FIG.3**

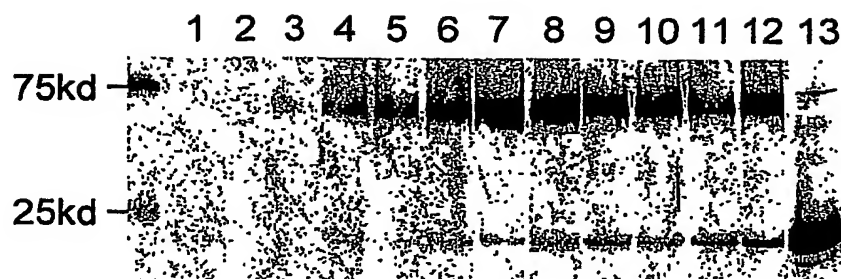


FIG.4a

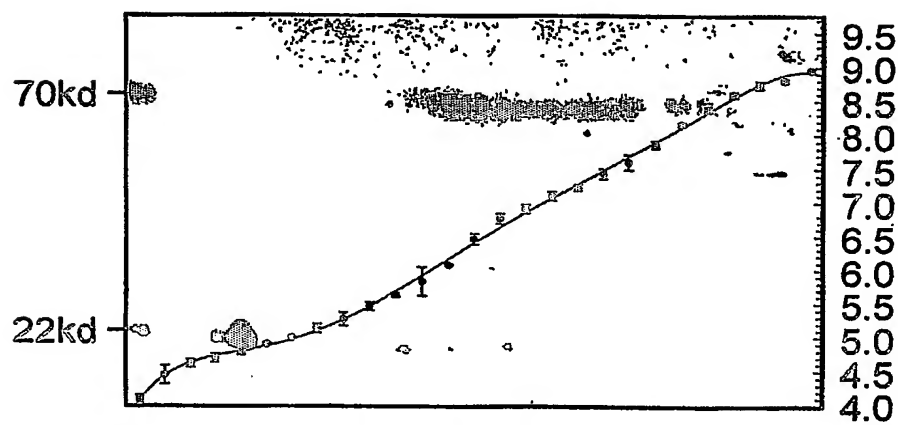


FIG.4b

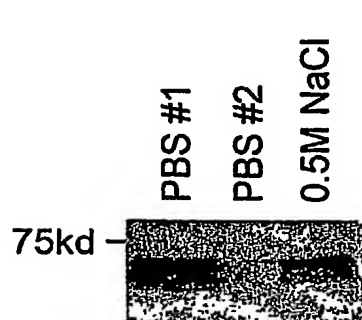


FIG.4c

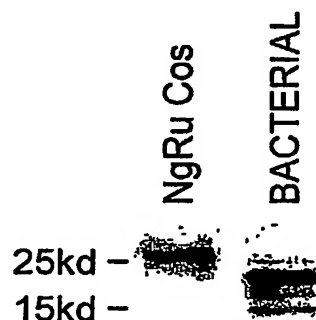


FIG.4d

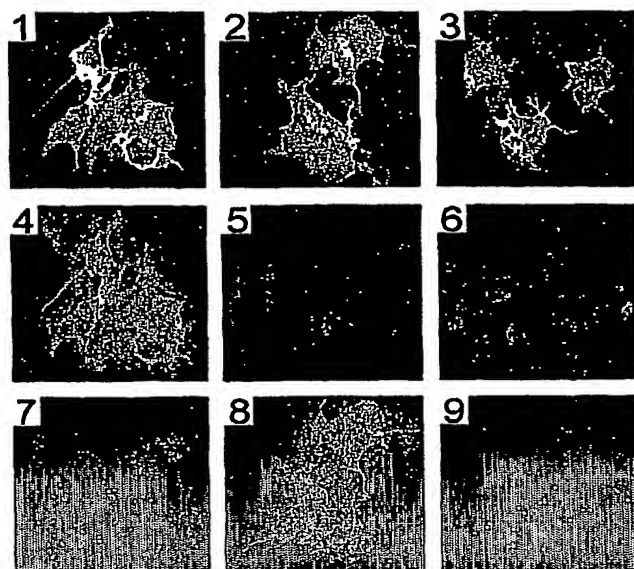


FIG. 5a

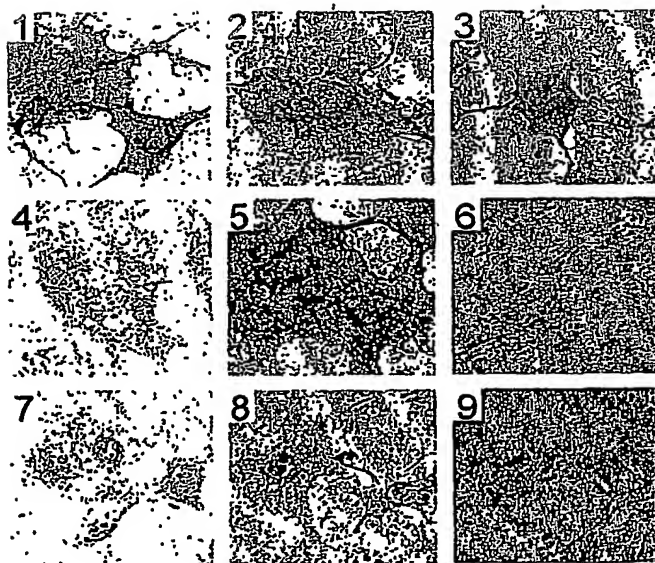


FIG. 5b












NgR Domain Organization (8 LRRs)	Nogo-66	MAG-Fe	OMgp
 NgR1	+++	+++	+++
 NgR2	-	+++	-
 NgR3	-	-	-
 LRR 1-8	+++		
 unique	-		
 LRR 1+3	+		
 LRR 3-8	+++		
 LRR 1-5	+		
 LRR 5-8	+		
 ΔLRR 6	-		
 2x LRR 6	-		

FIG.5c

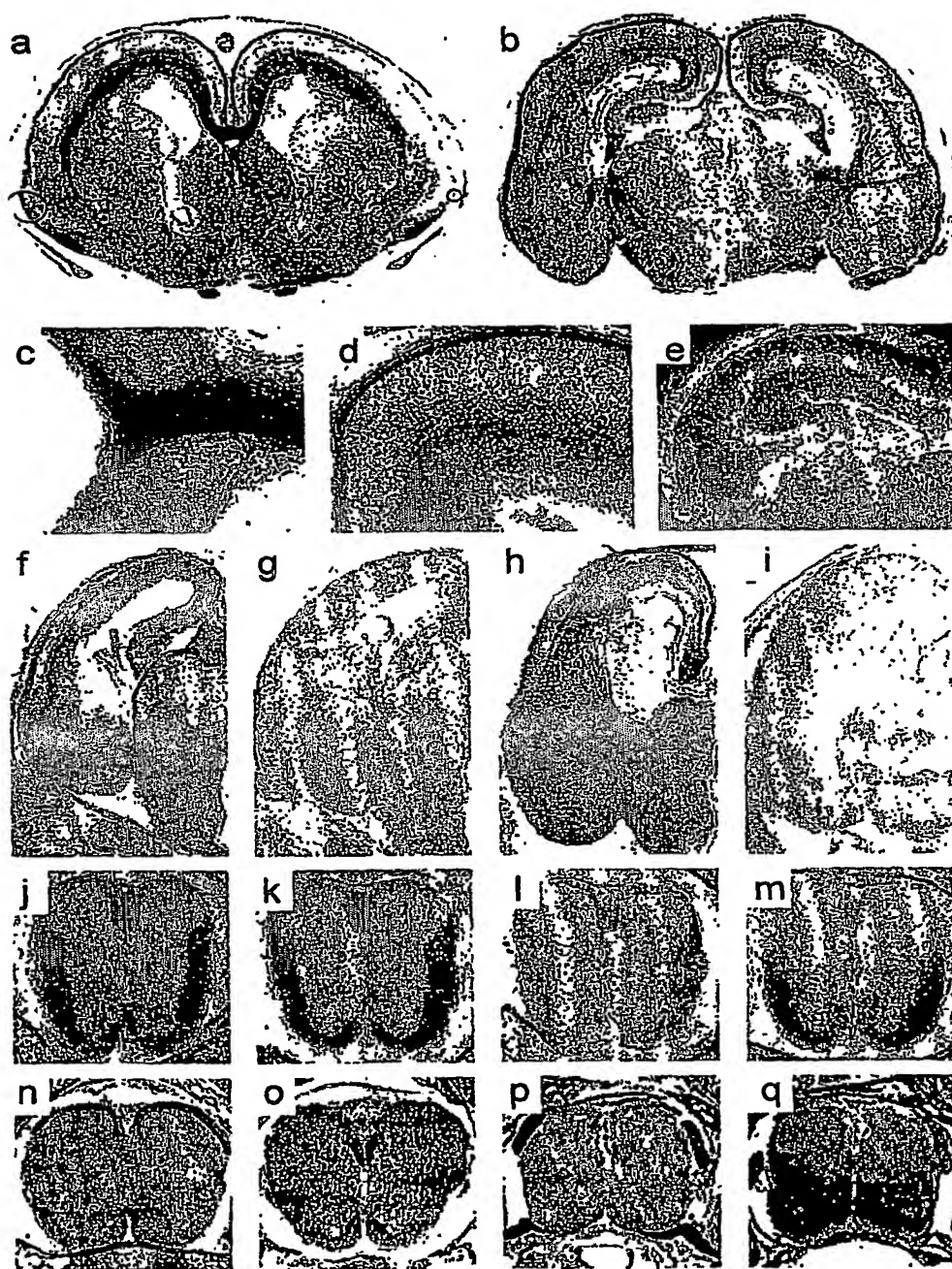


FIG.6



FIG. 7a

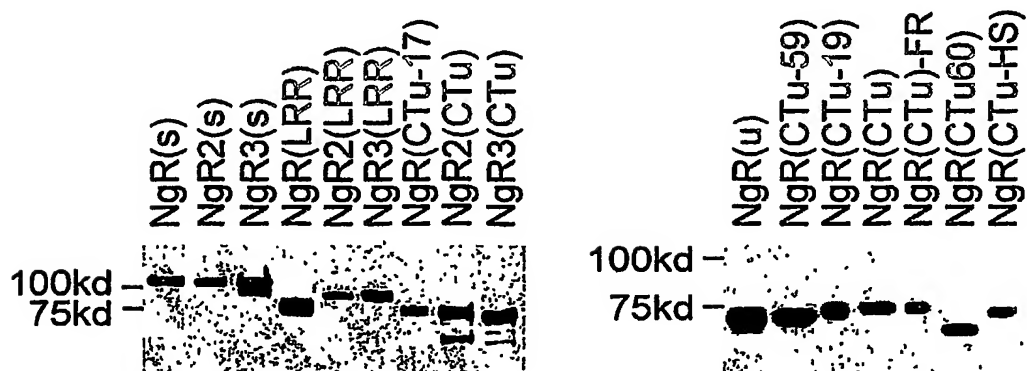


FIG. 7b


















	Construct	bdg to brain
	sNgR	+++
	sNgR2	-
	sNgR3	+++
	sNgR(LRR)	-
	sNgR3(LRR)	-
	sNgR(CTu)	+++
	sNgR(unique)	-
	sNgR(CTuΔ59)	-
	sNgR(CTuΔ19)	-
	sNgR(CTuΔ17)	+++
	sNgR(CTu)-FR	++
	sNgR(CTuΔHS)	+/-
	sNgR(CTu60)	+
	sNgR(CTu41)	-
	sNgR2(CTu)	-
	sNgR3(CTu)	+++

FIG. 7c

NgR.....WLQKFRGSSSE...  
NgR2.....WFQFARVSSSD...  
NgR3.....WLRRFRGSSSV...  
MAG.....GKYYFRGOLGG...  
Sn.....SGYNFRFEISD...  
L1.....YVHYFRVTAIN...  
TAG/ax-1.....MDYEFVSASN...

FIG. 7d

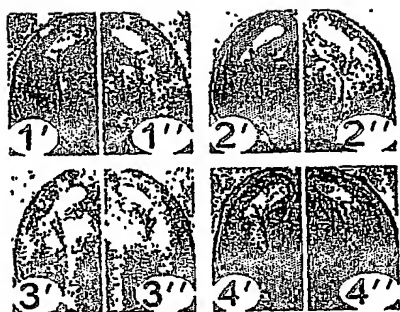


FIG. 7e

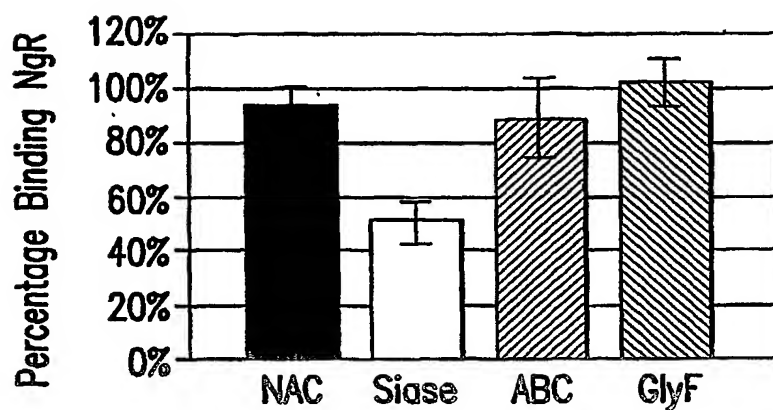


FIG. 7f

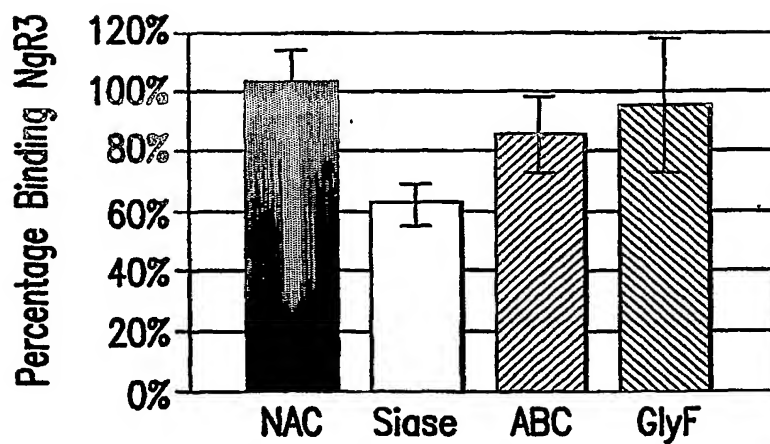


FIG. 7g

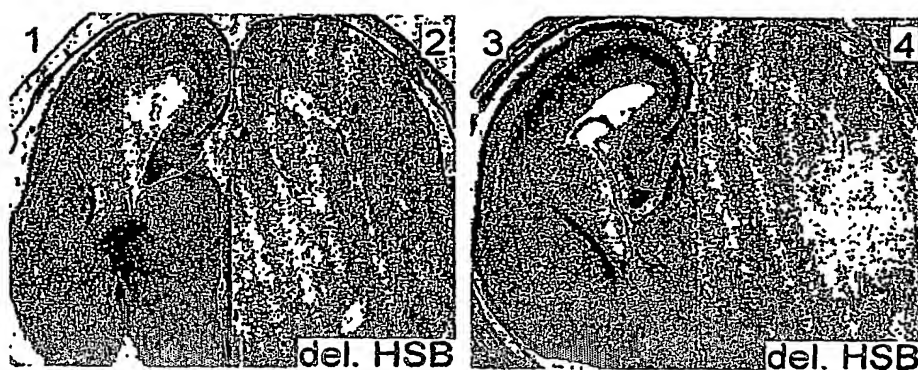


FIG. 8a

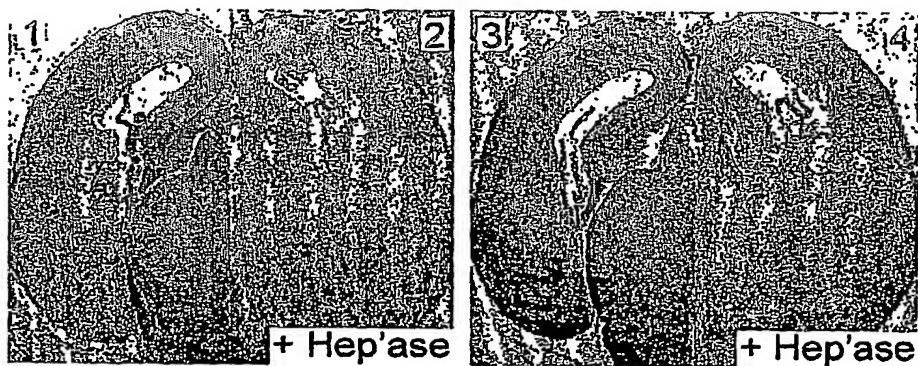


FIG. 8b

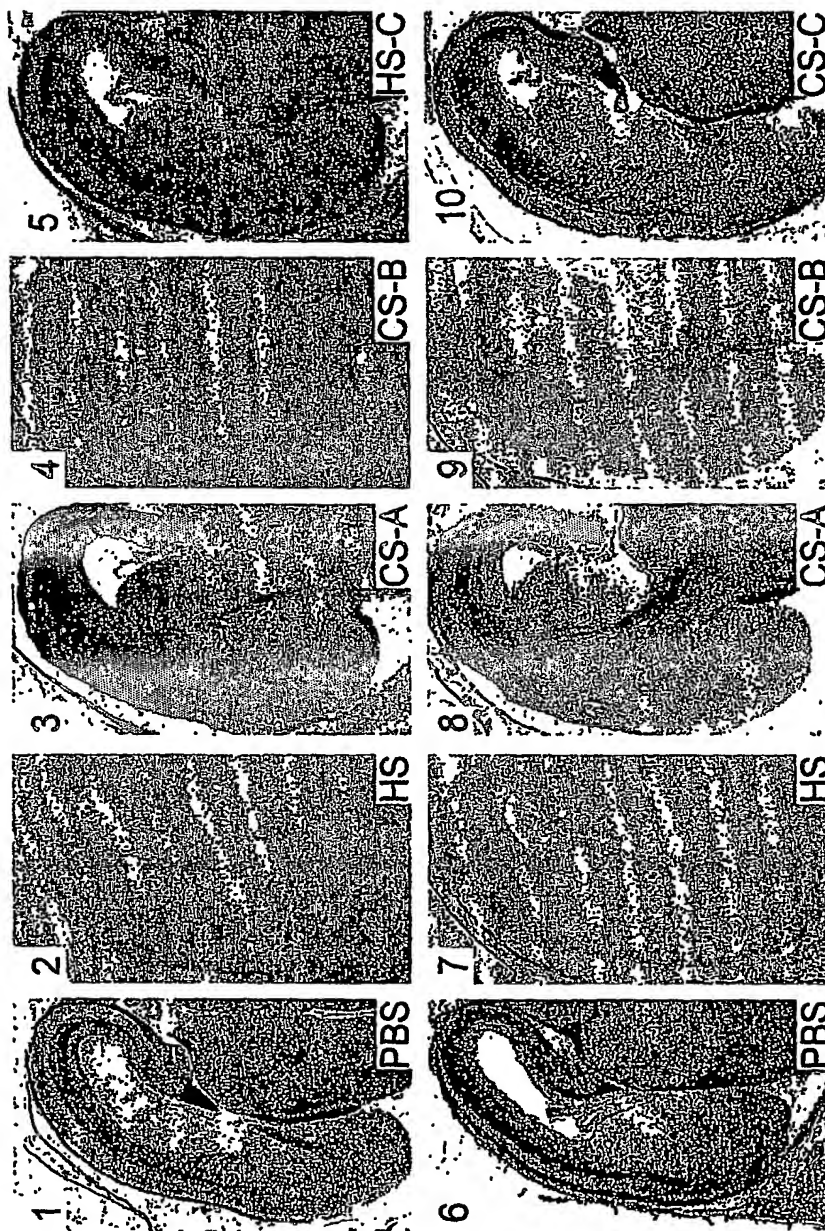


FIG.8c

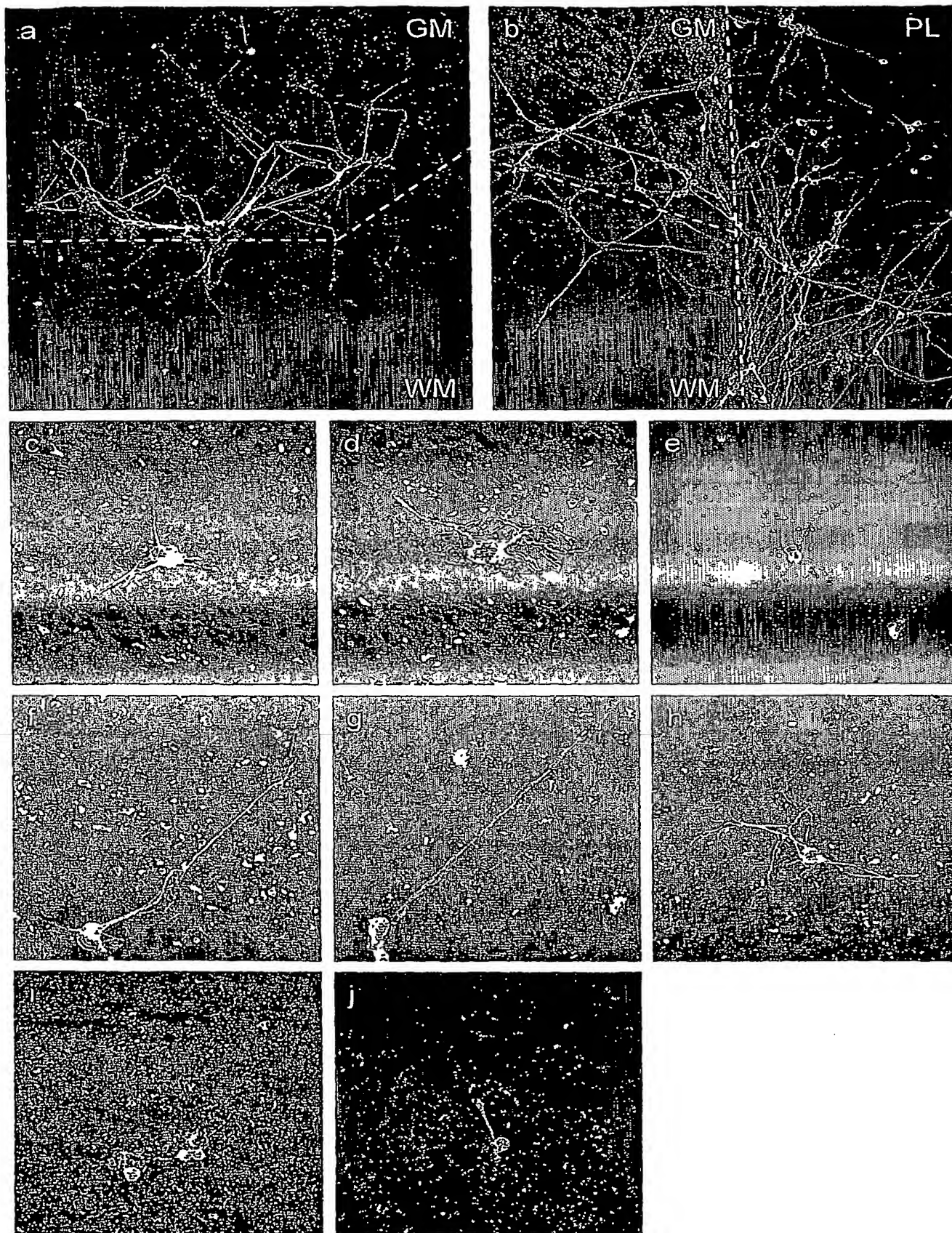


FIG 9

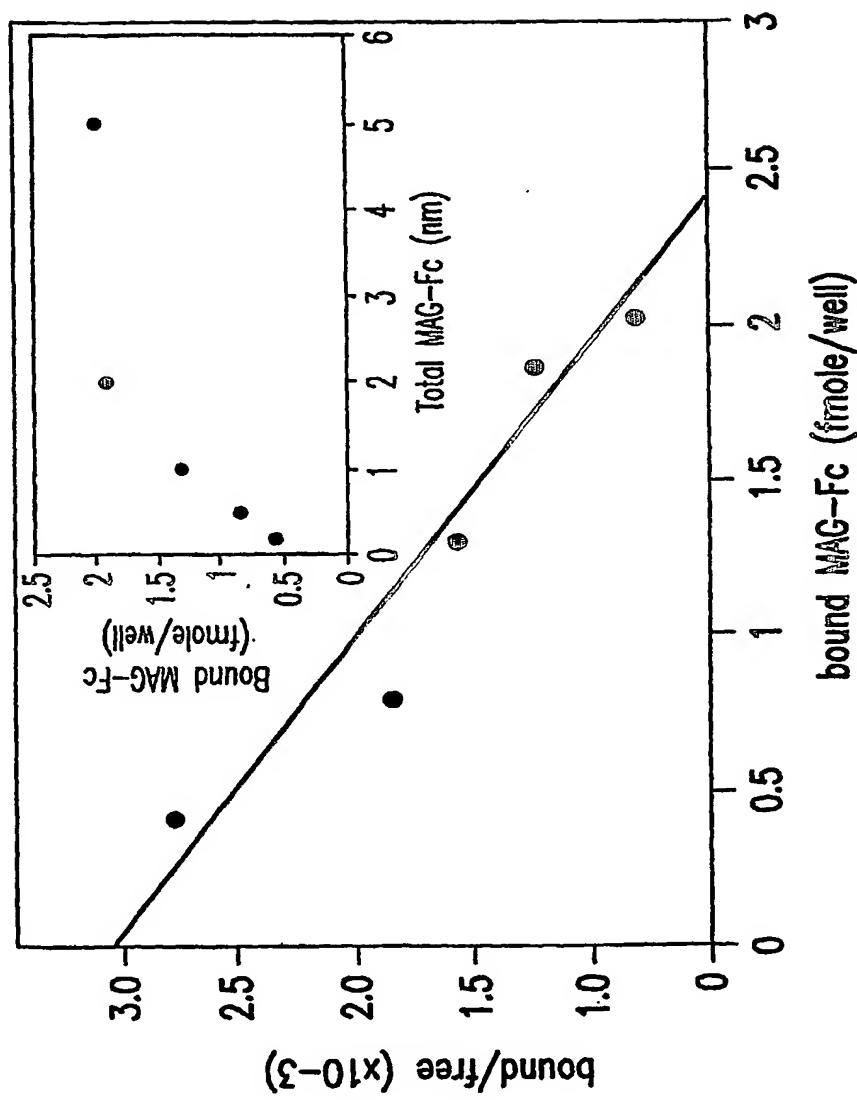


FIG. 10

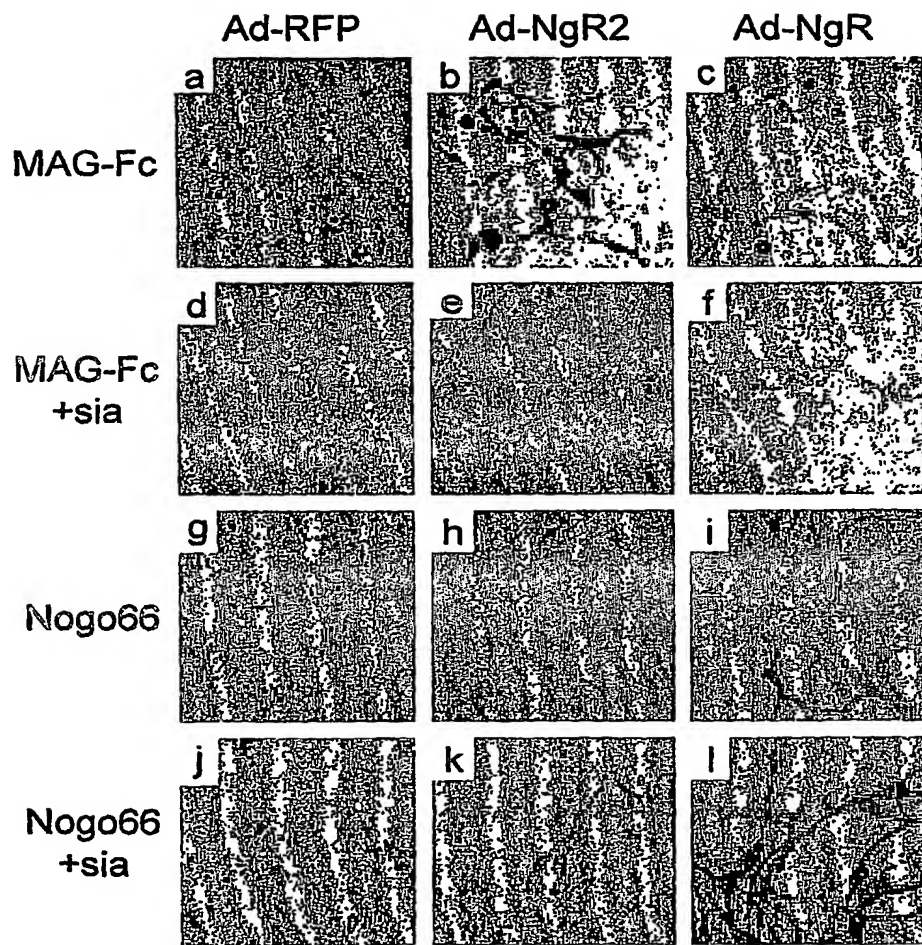


FIG. 11

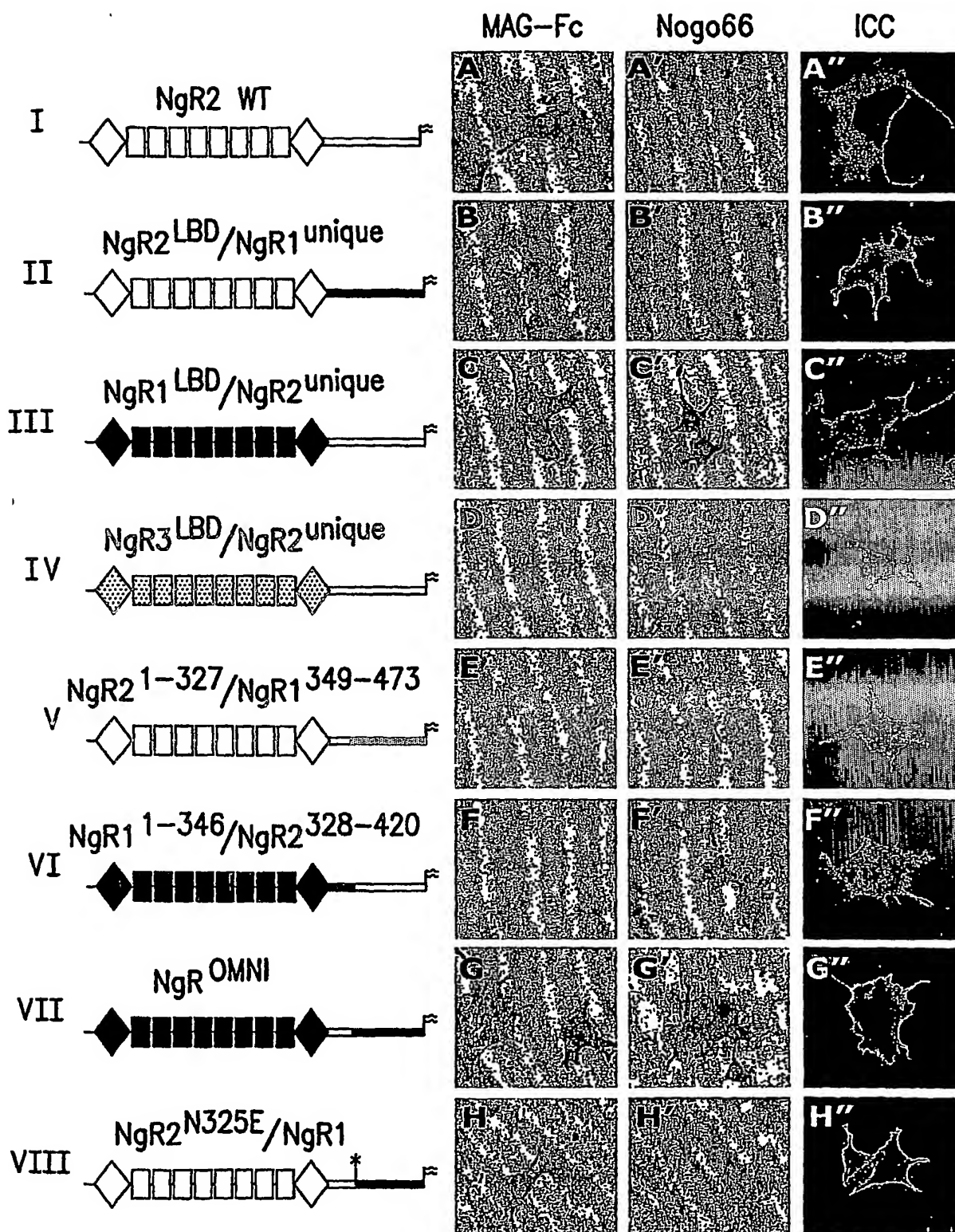


FIG. 12a

SUBSTITUTE SHEET (RULE 26)

			Spe1
			Spe1
NgR1	309	CAVAISGPPFRPFQTNQLTDEELLGLPKCCQPDAAADKASVLEPGRPAS	
NgR2	310	CPPPT-----PTRPGSRARGNSSSNHLYG	
NgR3	304	CTGPAAPHQIKSHTLSTSDRAARKEHHPSHGASRDKGH-PHGHLPG	

FIG. 12b

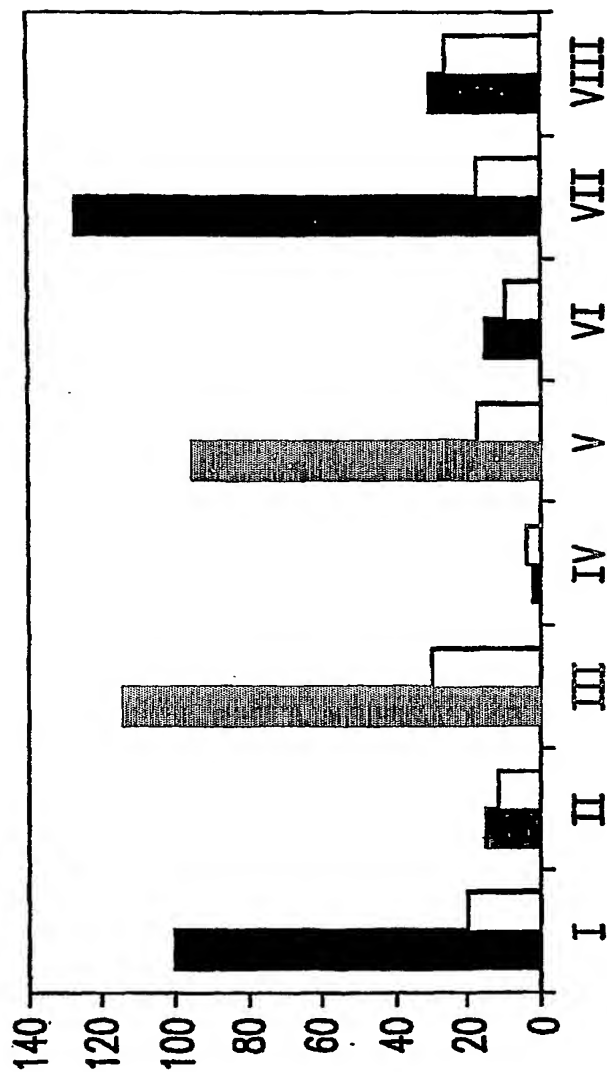
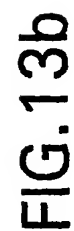
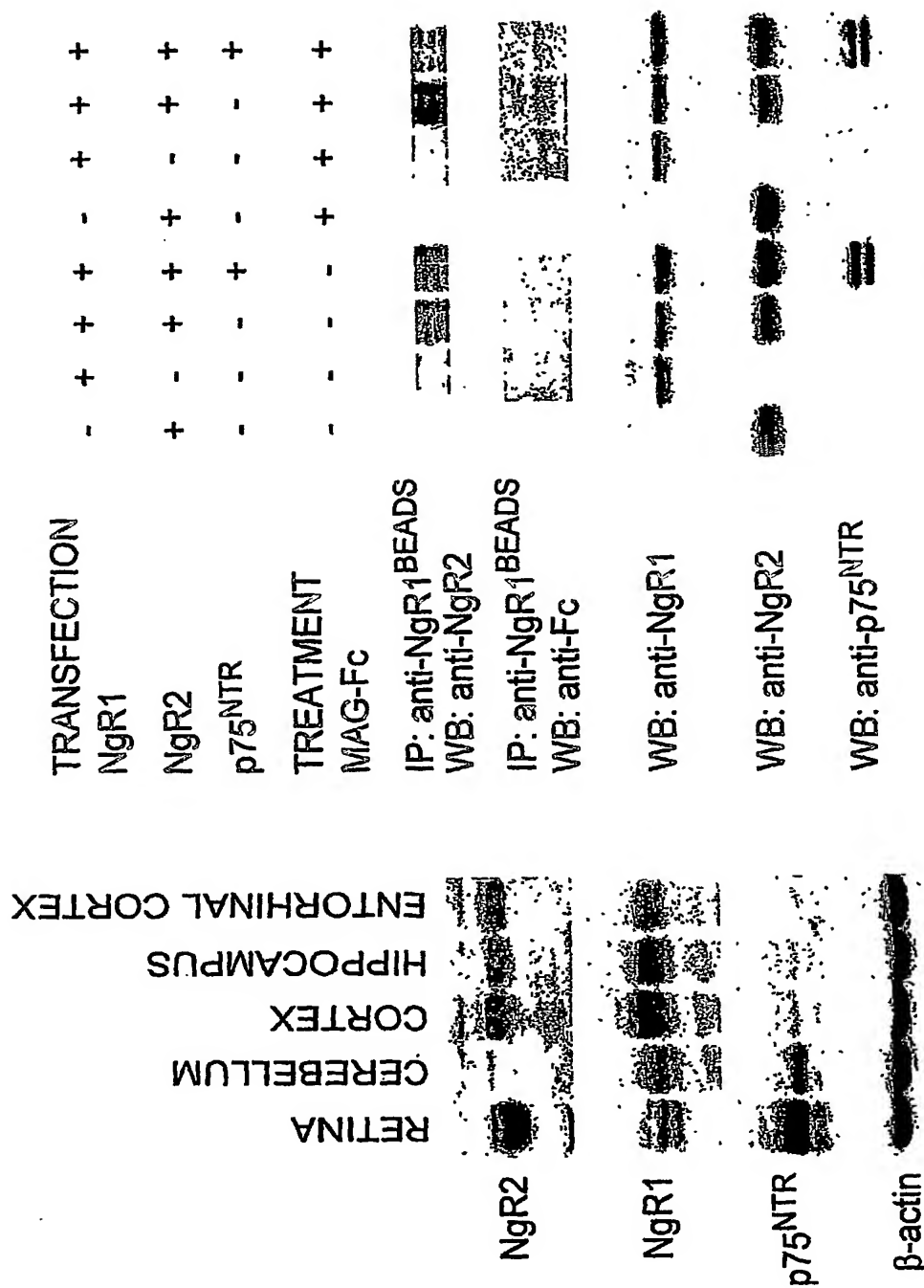


FIG. 12c



NgR2 interacts with p75NTR

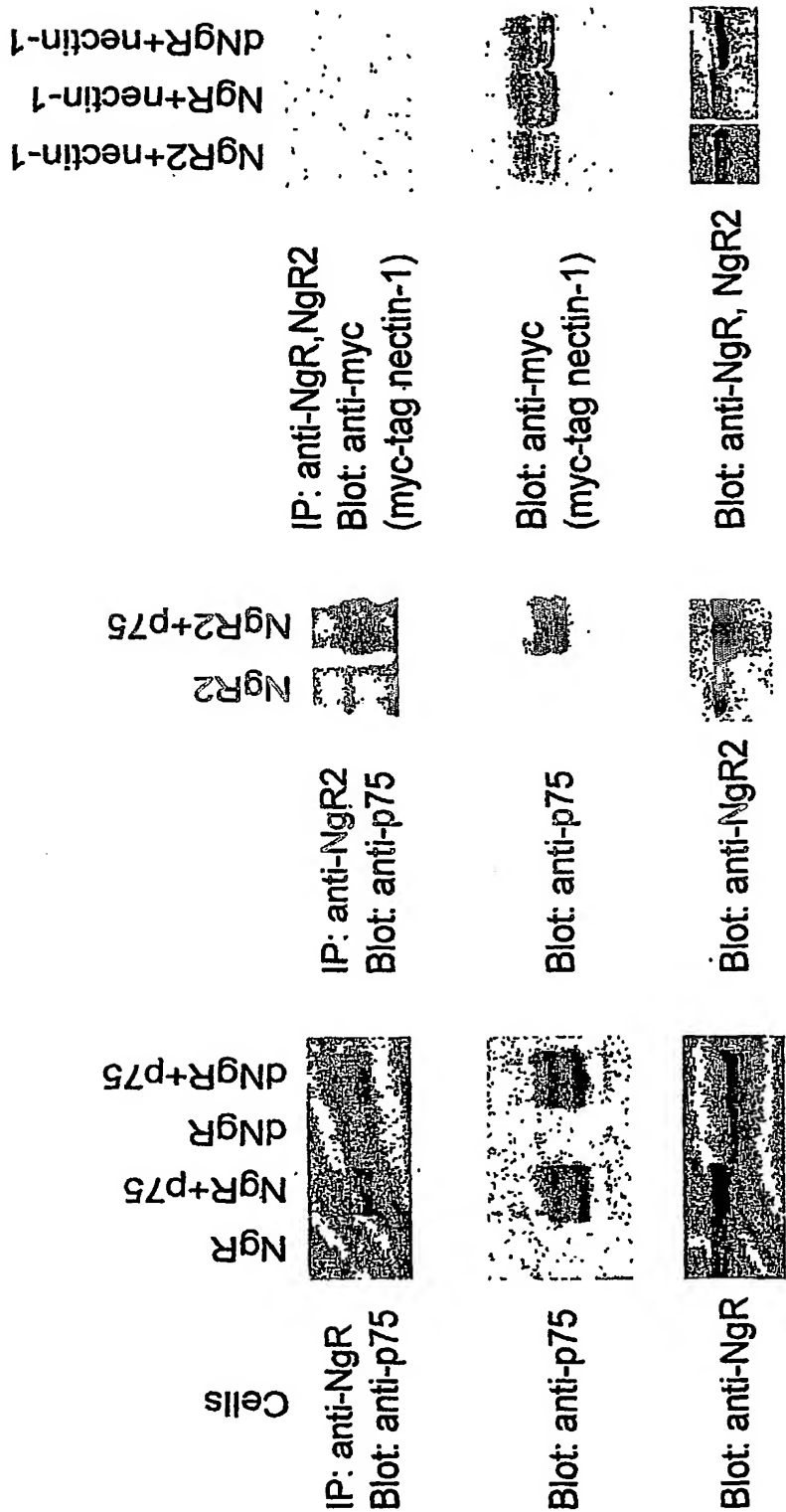


FIG. 14

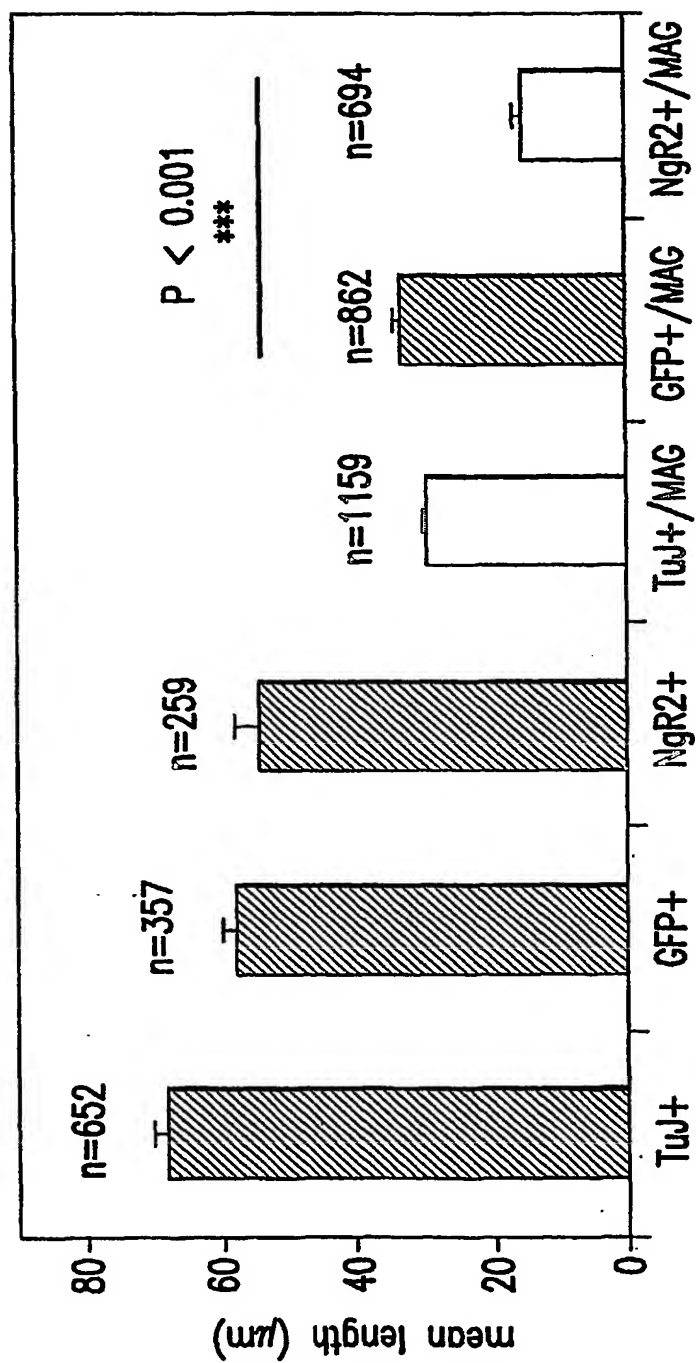


FIG. 15